## What is claimed is:

- 1. A method of managing inventory comprising the steps of: digitally watermarking objects, each watermark including a unique identifier; recording the unique identifiers in a database; and updating the database to reflect activity of the watermarked objects.
- 2. The method of claim 1, further comprising the step of directly applying a watermark to an object surface.
- 3. The method of claim 2, wherein a handheld printer directly applies the watermark.
- 4. The method according to claim 1, wherein the activity of the watermarked object includes one of shelving, sale, purchase, return, and damage recognition activity.
- 5. The method according to claim 1, further comprising the step of reading a watermarked item with a handheld computing device.
- 6. The method according to claim 1, wherein the unique identifier include a product type identifier.
- 7. The method according to claim 6, wherein the unique identifier further includes a product count number.
- 8. A monetary object for use in commerce, the monetary object including a digital watermark comprising a denomination identifier for the monetary object.
- 9. The monetary object according to claim 8, wherein said watermark further comprises a source identifier.

10. A method of determining the size of a momentary object comprising the steps of:

decoding a watermark embedded in a monetary object, the watermark including data corresponding to the denomination of the monetary object; and

based on the data, determining feedback to indicate the denomination of the monetary object; and

providing the feedback.

- 11. The method according to claim 10, wherein the provided feedback is an audible announcement of the denomination of the monetary object.
- 12. The method according to claim 10, wherein the provided feedback comprises

  Braille typography indicating the denomination of the monetary object.
- 13. The method according to claim 10, wherein the provided feedback comprises a series of audible sounds.
- 14. The method according to claim 10, wherein the provided feedback comprises Braille feedback.
- 15. The method according to claim 10, wherein a handheld computing device decodes the watermark.
- 16. A method of managing documents comprising the steps of:
  digitally watermarking a document to include a document history identifier;
  storing the document history identifier in a database, and associating related document history with the document history identifier; and

decoding the identifier from the digital watermark, and indexing the database with the identifier to access the related document history.

- 17. The method according to claim 16, wherein the related document history comprises document version information.
- 18. The method according to claim 17, wherein the document version information includes both version information pertaining to the document, and information pertaining to a later version.
- 19. The method according to claim 16, wherein the related document history comprises one of document version data, creation time, author and last edited information.
- 20. The method according to claim 16, wherein the identifier comprises at least document version information.
- 21. A method of managing documents comprising the steps of:
  digitally watermarking the document to include a document history identifier;
  decoding the identifier from the digital watermark to obtain the document history
  identifier, the identifier including at least document version information.
- 22. A method of printing documents in a network, the network comprising a watermark decoding device, a database for at least associating electronic files with unique identifiers, and a printing device, said method comprising:

associating in the database a unique identifier that is digitally watermarked within a physical document with an electronic copy of the document;

decoding the digital watermark with the watermark decoding device to retrieve the unique identifier;

determining the associated electronic copy of the document; and rendering the electronic copy of the document to the printing device.

- 23. The method according to claim 22, wherein the watermark decoding device comprises a handheld computing device.
- 24. The method according to claim 22, wherein the printing device is a printing device located closest to the watermark decoding device.
- 25. The method according to claim 22, wherein the database comprises a database.
- 25. A method of verifying a ticket stored on a handheld computing device, the handheld computing device having a display to display the ticket, the ticket including a digital watermark having an identifier, said method comprising the steps of:

upon presentment of a displayed electronic ticket, decoding the digital watermark from the displayed ticket to retrieve the identifier; and verifying the ticket based on the identifier.

- 26. The method according to claim 25, wherein said verifying step comprises the step of comparing the identifier to a set of preauthorized identifiers, wherein when the identifier is included in the set of preauthorized identifiers, the ticket is verified.
- 27. The method according to claim 25, wherein said verifying step comprises the step of comparing the identifier to a set of preauthorized identifiers, wherein when the identifier is not included in the set of preauthorized identifiers, the ticket is not verified.
- 28. The method according to claim 25, wherein said verifying step comprises the step of accessing an online-database to determine whether the identifier is listed in the database.
- 29. The method according to claim 28, wherein the on-line database comprises a listing of authorized tickets, categorized by identifiers.

- 30. The method according to claim 25, wherein the ticket comprises at least one of a ticket image, an authorization code, text, an image, a data file, a text file, an audio signal, a video signal, and an image signal.
- 31. A method of gaining entry to an event or movie comprising the steps of:
  purchasing a ticket online and receiving an electronic ticket, the electronic ticket
  being stored in a handheld computing device, the handheld computing device comprising
  a display, wherein the electronic ticket includes a digital watermark embedded therein;
  and

displaying the electronic ticket on the display, and presenting the display to a watermark reading device, which decodes the watermark.

- 32. The method according to claim 31, wherein entry is gained when the watermark is verified.
- 33. A handheld apparatus to read a digital watermark embedded within an object, said apparatus comprising:

an input device to capture an image of at least a portion of the object; a display device;

memory including executable software instructions stored therein, the instructions to purchasing a ticket online and receive an electronic ticket, the electronic ticket being stored in the handheld apparatus, and wherein the electronic ticket includes a digital watermark embedded therein, and to display the electronic ticket on the display; and electronic processing circuitry to execute the software instructions.

34. A handheld computing device comprising: a display including a plurality of pixel elements; and

a set of microlens, wherein each of the set of microlens corresponds with a pixel element, wherein the microlens a polarized and are arranged to create a pattern, the pattern corresponding to a unique identifier for the device.

35. A method of identifying a handheld device, the handheld device comprising a display, said method comprising the steps of:

providing a polarized luminance pattern on the display; and correlating the pattern with a unique identifier.